

## GILA RIVER BASIN

## 09460150 FRYE CREEK NEAR THATCHER, AZ

**LOCATION**--Lat 32°44'38", long 109°50'15", in NE<sub>1/4</sub> sec. 13, T.8 S., R.24 E. (unsurveyed), Graham County, Hydrologic Unit 15040005, in Coronado National Forest, on left bank 8.5 mi southwest of Thatcher.

**DRAINAGE AREA**--4.02 mi<sup>2</sup>. (Area at site used 1966-76, 3.91 mi<sup>2</sup>.)

**PERIOD OF RECORD**--Dec. 1966 to Sept. 1976, Dec. 1988 to current year.

**REVISED RECORDS**--WRD AZ 1968: Drainage area.

**GAGE**--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 5,580 ft above sea level, from topographic map. Prior to Dec. 1988, at site 0.25 mi upstream at different datum.

**REMARKS**--Records fair, except estimated daily discharges, which are poor. No regulation or diversion above station. city of Safford diverts water from Frye Mesa Reservoir 1 mi downstream for municipal supply.

**EXTREMES FOR PERIOD OF RECORD**--Maximum discharge, 577 ft<sup>3</sup>/s, Jan. 5, 1995, gage height, 2.90 ft, from floodmark and from rating curve extended above 45 ft<sup>3</sup>/s; no flow at times in most years.

**EXTREMES FOR CURRENT YEAR**--Peak discharge greater than base discharge of 8.0 ft<sup>3</sup>/s and (or) maximum (\*):

	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
	Apr. 29 .....	0315	*3.7	*0.87

Minimum daily discharge, no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	e0.09	0.07	0.11	0.11	0.30	0.55	3.2	0.75	0.04	0.01	0.00
2	0.00	e0.09	0.08	0.11	0.11	0.32	0.49	3.0	0.64	0.04	0.01	0.00
3	0.00	e0.09	0.10	0.11	0.10	0.31	0.51	3.0	0.55	0.04	0.01	0.00
4	0.00	e0.09	0.07	0.11	0.10	0.30	0.57	2.9	0.51	0.03	0.01	0.00
5	0.00	0.09	0.07	0.12	0.10	0.30	0.60	2.7	0.45	0.03	0.01	0.00
6	0.00	0.09	0.07	0.12	0.09	0.28	0.52	2.6	0.40	0.03	0.00	0.00
7	e0.05	0.10	0.08	0.11	0.09	0.28	0.51	2.4	0.37	0.02	0.01	0.00
8	e0.07	0.11	0.08	0.11	0.10	0.27	0.48	2.3	0.34	0.02	0.01	0.00
9	e0.06	0.11	0.08	0.11	0.09	0.28	0.48	2.1	0.31	0.02	0.00	0.00
10	e0.05	0.11	0.10	0.11	0.09	0.28	0.48	2.0	0.26	0.02	0.00	0.00
11	e0.05	0.11	0.12	0.11	0.09	0.28	0.48	1.8	0.24	0.02	0.00	0.00
12	e0.05	0.10	0.13	0.11	0.09	0.30	0.48	1.8	0.22	0.02	0.00	0.00
13	e0.05	0.09	0.13	0.11	0.11	0.40	0.53	1.8	0.21	0.02	0.00	0.00
14	e0.05	0.09	0.13	0.11	0.10	0.47	0.75	2.0	0.20	0.02	0.00	0.00
15	e0.05	0.09	0.13	0.12	0.09	0.55	1.1	2.3	0.18	0.01	0.00	0.00
16	e0.05	0.09	0.14	0.13	0.10	1.1	1.3	2.1	0.16	0.01	0.00	0.00
17	e0.05	0.09	0.16	0.13	0.19	1.5	1.2	2.0	0.14	0.01	0.00	0.00
18	e0.05	0.09	0.15	0.13	0.28	1.1	1.2	2.1	0.15	0.02	0.00	0.00
19	e0.06	0.09	0.13	0.13	0.32	0.91	1.2	1.9	0.11	0.02	0.00	0.00
20	e0.06	0.09	0.13	0.13	0.34	0.79	1.1	1.6	0.11	0.01	0.00	0.00
21	e0.07	0.11	0.13	0.13	0.34	0.61	1.1	1.6	0.10	0.02	0.00	0.00
22	e0.07	0.09	0.13	0.11	0.33	0.58	1.2	1.5	0.10	0.02	0.00	0.00
23	e0.08	0.09	0.14	0.11	0.31	0.57	1.2	1.3	0.09	0.02	0.00	0.00
24	e0.07	0.09	0.13	0.11	0.30	0.60	1.2	1.2	0.09	0.02	0.00	0.00
25	e0.08	0.09	0.13	0.11	0.30	0.66	1.3	1.1	0.08	0.01	0.00	0.00
26	e0.09	0.12	0.13	0.11	0.30	0.76	1.6	0.96	0.07	0.02	0.00	0.00
27	e0.09	0.09	0.13	0.11	0.26	0.80	2.1	0.85	0.07	0.02	0.00	0.00
28	e0.09	0.09	0.13	0.11	0.27	0.80	2.8	0.81	0.06	0.02	0.00	0.00
29	e0.09	0.09	0.13	0.11	---	0.78	3.2	0.73	0.05	0.01	0.00	0.01
30	e0.09	0.08	0.12	0.11	---	0.69	3.2	0.69	0.05	0.01	0.00	0.02
31	e0.09	---	0.11	0.11	---	0.68	---	0.75	---	0.01	0.00	---
TOTAL	1.66	2.84	3.56	3.56	5.10	17.85	33.43	57.09	7.06	0.63	0.07	0.03
MEAN	0.054	0.095	0.11	0.11	0.18	0.58	1.11	1.84	0.24	0.020	0.002	0.001
MAX	0.09	0.12	0.16	0.13	0.34	1.5	3.2	3.2	0.75	0.04	0.01	0.02
MIN	0.00	0.08	0.07	0.11	0.09	0.27	0.48	0.69	0.05	0.01	0.00	0.00
AC-FT	3.3	5.6	7.1	7.1	10	35	66	113	14	1.2	0.1	0.06
CFSM	0.01	0.02	0.03	0.03	0.05	0.14	0.28	0.46	0.06	0.01	0.00	0.00
IN.	0.02	0.03	0.03	0.03	0.05	0.17	0.31	0.53	0.07	0.01	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2003, BY WATER YEAR (WY)

(WY)	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1.14	1.36	0.90	1.72	1.63	2.09	2.65	4.50	1.94	1.20	0.70	1.04
MAX	9.74	9.26	4.43	13.7	11.3	10.9	9.37	17.0	7.37	6.81	1.91	6.85
MIN	0.054	0.095	0.11	0.11	0.17	0.19	0.27	0.48	0.69	0.05	0.00	0.00
(WY)	2003	2003	2003	2003	2000	1999	2002	2002	2002	1996	2003	2002

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1990 - 2003

ANNUAL TOTAL	30.08	132.88	
ANNUAL MEAN	0.082	0.36	1.74
HIGHEST ANNUAL MEAN			5.02
LOWEST ANNUAL MEAN			0.17
HIGHEST DAILY MEAN	0.73	Aug 7	1995
LOWEST DAILY MEAN	0.00	Apr 18	1990
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 21	1990
ANNUAL RUNOFF (AC-FT)	60	264	1260
ANNUAL RUNOFF (CFSM)	0.021	0.091	0.43
ANNUAL RUNOFF (INCHES)	0.28	1.23	5.88
10 PERCENT EXCEEDS	0.25	1.2	3.9
50 PERCENT EXCEEDS	0.05	0.11	0.43
90 PERCENT EXCEEDS	0.00	0.00	0.02

e Estimated